Article
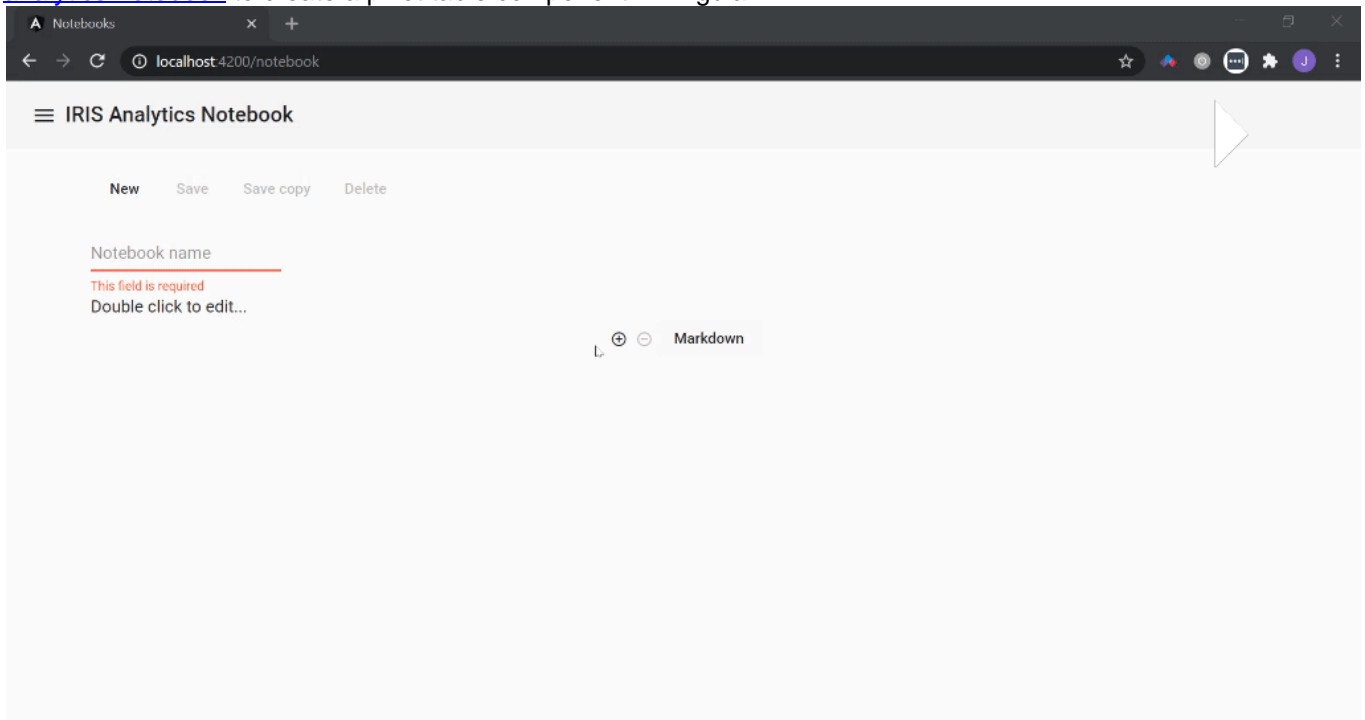
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 Open Exchange

Using the IRIS Analytics Business Intelligence REST API

Did you know that you can get IRIS Analytics features as an REST API?

In this article I'll show some endpoints of IRIS Analytics [Business Intelligence REST API,](#) used in my project [iris-analytics-notebook](#) to create a pivot table component in Angular.

Getting all cubes in namespace

Method: POST
Endpoint:

```
/api/deepsee/v1/:namespace/Info/Cubes
```

Example:

```
http://localhost:52773/api/deepsee/v1/myapp/Info/Cubes
```

Response example:

[//jsfiddle.net/rpereirajr/74ep301g/15/embedded/result/](#)
[This is an embedded link, but you cannot view embedded content directly on the site because you have declined the cookies necessary to access it. To view embedded content, you would need to accept all cookies in your

Cookies Settings]

Getting all dimensions from a specified cube:

Method: POST
Endpoint:

```
/api/deepsee/v1/:namespace/Info/Filters/:cube
```

Example:

```
http://localhost:52773/api/deepsee/v1/myapp/Info/Filters/AsthmaPatients
```

Response example:

//jsfiddle.net/jrpereirajr/74ep301q/17/embedded/result/
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Getting all measures from a specified cube:

Method: POST
Endpoint:

```
/api/deepsee/v1/:namespace/Info/Measures/:cube
```

Example:

```
http://localhost:52773/api/deepsee/v1/myapp/Info/Measures/AsthmaPatients
```

Response example:

//jsfiddle.net/jrpereirajr/74ep301q/19/embedded/result/
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Getting all members from a specified dimension:

Method: POST
Endpoint:

```
/api/deepsee/v1/:namespace/Info/FilterMembers/:cube/:dimension
```

Example:

```
http://localhost:52773/api/deepsee/v1/myapp/Info/FilterMembers/AsthmaPatients/[AgeD].
[H1].[Age Group]
```

Response example:

//jsfiddle.net/jrpereirajr/74ep301q/20/embedded/result/
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Executing a MDX query:

Method: POST
Endpoint:

```
/api/deepsee/v1/:namespace/Data/MDXExecute
```

Body:

```
{
    "MDX": "<query text>"
}
```

Example:

```
http://localhost:52773/api/deepsee/v1/myapp/Data/MDXExecute
```

```
{
    "MDX": "SELECT NON EMPTY HEAD(NONEMPTYCROSSJOIN([GenD].[H1].[Gender].Members, {[M
easures].[Allergy Count]}), 2000, SAMPLE) ON 0,NON EMPTY [AgeD].[H1].[Age Group].Memb
ers ON 1 FROM [AsthmaPatients] %FILTER %OR({[PatGrpD].[H1].[Tested].&[Yes]})"
}
```

Response example:

//jsfiddle.net/jrpereirajr/74ep301q/24/embedded/result/
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Now, you can grab all raw data from server, you can use a lot of JavaScript libraries and/or frameworks to create riches UI. You can check out an example using Angular and Angular Material [here](#).

#Analytics #InterSystems IRIS #InterSystems IRIS BI (DeepSee)
Check the related application on InterSystems Open Exchange

Source URL:https://community.intersystems.com/post/using-iris-analytics-business-intelligence-rest-api